

WHAT IS CLAIMED IS:

1. A carbon brush holder comprising:

5 an electrically insulative holder base, said electrically insulative holder base comprising an upwardly extended vertical receiving hole;

a copper conducting receptacle tightly press-fitted into the vertical receiving hole of said electrically insulative holder base, said copper conducting receptacle having a tubular configuration; and

10 a lead wire terminal riveted to an outside wall of an upper part of said copper conducting receptacle;

wherein said electrically insulative holder base comprises an inside locating groove upwardly extended to a top side thereof for the positioning of said lead wire terminal upon insertion of said copper conducting receptacle into said vertical
15 receiving hole of said electrically insulative holder base.

2. The carbon brush holder as claimed in claim 1, wherein said lead wire terminal has a rectangular configuration; said inside locating groove of said electrically insulative holder base has a rectangular configuration fitting said lead wire terminal.

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3. The carbon brush holder as claimed in claim 1, wherein said lead wire terminal has a bottom positioning notch; said electrically insulative holder base comprises an inside locating rod suspended in said inside locating groove and engaged into said bottom positioning notch of said lead wire terminal.

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4. The carbon brush holder as claimed in claim 1, wherein said electrically insulative holder base comprises a recessed portion in said inside locating groove; said lead wire terminal has a bottom protruding portion engaged into said recessed portion of said electrically insulative holder base.

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5. The carbon brush holder as claimed in claim 1, wherein said inside locating groove of said electrically insulative holder base has a bottom end made gradually reduced toward a bottom side; said lead wire terminal has a pointed bottom end fitting the gradually reduced bottom end of said inside locating groove.

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6. The carbon brush holder as claimed in claim 1, wherein said electrically insulative holder base has a raised portion suspended in said inside locating groove; said lead wire terminal has a guide groove upwardly extended from a bottom end thereof and adapted to receive said raised portion of said electrically insulative holder base upon insertion of said lead wire terminal into said inside locating groove.

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7. The carbon brush holder as claimed in claim 1, wherein said lead wire terminal has a narrow thin-wall portion transversely disposed on a middle part thereof above the riveted point of said lead wire terminal to said copper conducting receptacle.

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8. The carbon brush holder as claimed in claim 7, wherein said lead wire terminal has a transverse groove transversely disposed above the riveted point of said lead wire terminal to said copper conducting receptacle, defining said thin-wall portion.

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9. The carbon brush holder as claimed in claim 1, wherein said lead wire terminal has two bonding points disposed at two opposite lateral sides above the riveted point of said lead wire terminal to said copper conducting receptacle and respectively welded to said copper conducting receptacle.

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10. The carbon brush holder as claimed in claim 1, wherein the distance between an outer side of said lead wire terminal and an inner side of said inside locating groove is smaller than 0.1mm.